

NUCLEOTIDES AND ANALOGS HAVING PHOTOREMOVABLE  
PROTECTING GROUPS

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ABSTRACT OF THE DISCLOSURE

A synthetic strategy for the creation of large  
scale chemical diversity. Solid-phase chemistry,  
photolabile protecting groups, and photolithography are  
used to achieve light-directed spatially-addressable  
10 parallel chemical synthesis. Binary masking techniques  
are utilized in one embodiment. A reactor system,  
photoremovable protective groups, and improved data  
collection and handling techniques are also disclosed. A  
technique for screening linker molecules is also  
15 provided.

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